Response to Election of Species Requirement Serial No. 10/717,224 Page 10 of 10

Remarks

The Patent Office has required Applicants to elect from each of three groups one

allegedly patentably distinct species to which the claims must be restricted:

Applicants hereby elect, without traverse, the following. In Species A, Applicants elect

an evolutionary algorithm as recited in claims 2 and 23. In Species B, Applicants elect proteins

as the biological item being represented by the nodes as recited in claims 13 and 34. In Species

C, Applicants elect medical data as the data representative of measured biological behavior or

structures as recited in claims 19 and 40.

Upon allowance of a generic claim, Applicants are entitled to consideration of claims to

additional species which depend from or otherwise require all the limitations of the allowed

generic claim. Applicants understand that the claims will be restricted to the elected species if

no generic claim is finally held to be allowable, and reserve the right to pursue claims readable

on any of the non-elected species in one or more related applications if the species election

requirements are maintained.

Applicants respectfully request that the application now proceed promptly to

examination. The Examiner is invited to contact the undersigned with any questions about this

paper. Early favorable action is respectfully solicited.

Respectfully submitted,

Date: April 6, 2007

Tel. No.: (617) 570-1057

Fax No.: (617) 523-1231

Joel F. Lehrer, Reg. No. 56,401

Attorney for Applicants

Goodwin | Procter LLP

Exchange Place

53 State Street

Boston, Massachusetts 02109

LIBC/2957703.1